



RESEARCH ON LATEST INNOVATIONS IN TEXTILE INDUSTRY

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ABSTRACT

Fashion, Textile and Garment industry is one of the dirtiest industries in the world. Majorly due to the harm that cotton and synthetic fiber fabrication effect on the environment and pa because of seriously old-fashioned manufacturing methods used to dye and finish fabric.

But enough of the gloomy facts, As consumers are becoming progressively more aware and clothing manufacturers are stepping up to more environmental responsibility, there have been latest advances in the area of garment making as well.

From fabric out of food, waste materials, juices, edible items, etc. we can very soon get innovative fabrics in our market which are sustainable as well as eco-friendly.

KEYWORDS: Textile Innovation Fashion Industry.

INTRODUCTION:

1. Fabric from Milk, Tea, and Coffee Beans:

Have you ever imagined that we can wear milk, tea or coffee? But with latest innovation in garment technology, now we can see and wear it too.

A German microbiology student turned designer Anke Domaske uses milk to make an "Eco Milk Fiber" called QMILCH. High-tech sports clothing company Virus uses recycled coffee beans for their Stay Warm line of cold-weather performance apparel. And Suzanne Lee, fashion designer, has been making fabric and vegetable leather out of the fermented tea, KOMBUCHA.



2. Air Dying, Saving litres of Water every day:

Colorep, a California based company Developed Air Dye works with proprietary dyes that are heat-transferred from paper to fabric in a step process. This can save between 7 and 75 gallons of water in the dying of a pound of fabric, save energy, and produces, no harmful by-products. This latest technology uses 85% less energy than traditional dying methods.

This technology has become a signature element for the fabulous designing duo, costello Tagliapietra and Gretchen Jones, who uses this unique technology in almost all of their designed garments in their fall winter/ spring collection.



3. Digital Printing:

With this latest technology of digital printing, prints are directly applied to fabrics with printers, reducing water usage by 95%, energy reduction of 75%, and minimizing textile waste.

This technique has been used by designers like Mary Katrantzou, Alexander McQueen and Basso & Brooke.



4. Plastic Bags and Beer Bottles Finding New way of Up cycle:

Recycled synthetics, made with plastic bags to beer bottles continue to make a display. In much the same way that other materials and bamboo are transformed into thread, the upcycled synthetics are broken down into a fine particulate, melted, and extruded into fiber.

The I Am Not A Virgin jeans pictured below, use a mix of 25% bottle fiber and 75% cotton, the resulting material is soft to the hand, yet is durable and performs as denim should.



5. Hand-Dying:

Although its nothing new to hand dye a fabric but it emerged with new ways or techniques of hand dying. A large number of smaller fashions are working to locally sourced materials and hand dying their garments to create stunning looks.

Pieces from Jeff Garner's Prophetik (pictured below), for example, based on hemp-silk blends hand-dyed using organic dyestuffs grown locally in a community garden.



CONCLUSION:

The purpose of the textile design is not only the pursuit of fashion and aesthetic. It is a multi-disciplinary comprehensive design art. Entering a new era of science and technology, textile design should be based on the "people-oriented" principle. It develops forward to meeting people's psychological and physiological needs.

Nowadays, multicultural, environmental protection and intelligent digitization have become the theme of the textile design. Technology drives the rapid development of clothing art. The garment has been a qualitative leap. The rapid development of the network information makes clothing design more efficient. People's demands for environmental health gradually achieve the integrative development of production-green-health with the help of science and technology. It is beneficial for human beings and does not damage the environment.

Grasping the frontiers of modern garment design art, exploring a new perspective of modern art of clothing, starting from the multi-angle and multi-dimensional unceasingly, communicating with multi-culture and setting up a new conception of taking health as the center all that are to lead the fashion design to a broader field with the backing of a strong technical force.

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